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### **Environmental** ERC Team Restoration Contractor Interoffice Memorandum

Job No. 22192 Written Response Required 1 NO Closes CCN N A OU 200-ZP-1 TSD N/A FRA NA Subject Code #640

TO:

M. A. Buckmaster, H0-19

DATE: July 17, 1997

M. J. Galgoul, H9-03

COPIES:

See Below

FROM:

R. T. Coffman

Sampling and Analytical Services

X7-02/531-0661

SUBJECT: 200-ZP-1 PHASE II PERFORMANCE MONITORING, GROUNDWATER

RESULTS, MAY 1997, REV 0

#### REFERENCES:

1. BHI, 1997, On-Site Measurements Quality Assurance Plan, BHI-QA-03, Plan 5.2, REV 1, Bechtel Hanford, Inc., Richland, Washington.

- 2. BHI, 1995, Field Screening Procedures, BHI-EE-05, Bechtel Hanford, Inc., Richland, Washington.
- BHI, 1997, 200-ZP-1 Field Screening Support Logbook, EL-1359, Bechtel Hanford, Inc., 3. Richland, Washington.

This data package contains field screening results for groundwater samples analyzed to support 200-ZP-1 IRM Phase II performance monitoring. The Quality Assurance level for this work corresponds to QC-1 as specified in reference 1 (BHI 1997). Samples collected and analyzed during May 1997 were managed under SAF C97-015 (Group2), and C97-018 (Group 3).

Attachment I contains Volatile Organic Compound (VOC) results for groundwater samples collected to support the referenced project. The VOC results were generated using a Hewlett Packard 5890 gas chromatograph with a headspace autosampler operated in accordance with Field Screening Procedure (FSP) 1.29, Aqueous Headspace Analysis of Volatile Organic Compounds in Water Using Hewlett Packard 5890 Gas Chromatograph (BHI 1997). Analysis of sample B0K5C9 (299-W14-9) revealed a higher concentration of chloroform than usually seen. A second analysis was performed as a verification of the first set of results. The results of the second analysis were the same as the original analysis. Analysis results can be found on Attachment 1 of this report. Chloroform concentrations have risen from 22  $\mu$ g/L to 126  $\mu$ g/L, and carbon tetrachloride concentrations have dropped from 420  $\mu$ g/L to 50  $\mu$ g/L at this well since November 1996. Information concerning operation and calibration of the gas chromatograph is contained in the instrument logbook EL-1329. Please contact me if you have any questions on this information.

M. A. Buckmaster, H0-19 Page 2

R. T. Coffman, Engineer/Analyst

RTC:rtc

#### Attachments:

Attachment 1. 200-ZP-1 IRM Phase II Performance Monitoring, Groundwater Results, May 1997

Attachment 2. Sample Chain of Custody Sheets

# Copies:

D. E. Ayres, B1-35, w/attachments 1 and 2

J. V. Borghese, H9-03, w/attachment 1 only

R. T. Coffman, X7-02, w/attachments 1 and 2

C. W. Denslow, H9-03, w/attachment 1 only

B. H. Ford, H0-02, w/attachment 1 only

J. D. Isaacs, H0-19, w/attachment 1 only

I. D. Jacques, L6-06, w/attachment I only

R. B. Kerkow, X7-02, w/attachment 1 only

S. A. Strope, T7-12, w/attachment 1 only

D. A. St John, N1-28, w/attachment 1 only

L. C. Swanson, H9-02, w/attachment I only

BHI Document Control, 114-79, w/original attachments



## 200-ZP-1 Phase II Performance Monitoring Groundwater Results, May 1997 SAF C97-015(Group 2) and C97-018(Group 3)

Sample	HEIS	Sample	Analysis	Chloroform	Carbon Tetrachloride	Trichloroethylene
Location	Number	Date	Date	(µg/L)	(μg/L)	(µg/L)
299-W14-9	BOK5C9	5/21/97	5/28/97	122	50	2.9
299-W14-9(analysis #2)	BOK5C9	5/21/97	5/28/97	126	50	2.9
299-W15-4	BOK5D5	5/19/97	5/20/97	10	400	< 2.0
299-W15-15	BOK5D1	5/22/97	5/28/97	8.4	930	< 2.0
299-W15-19	BOK5D2	5/21/97	5/28/97	3.4	220	< 2.0
Duplicate @ 299-W15-19	BOK5D3	5/21/97	5/28/97	3.3	230	< 2.0
299-W15-30	BOK5C3	5/21/97	5/28/97	50	4000	5.8
299-W15-31A	BOK5C4	5/21/97	5/28/97	15	3700	5.9
299-W15-39	BOK5D4	5/19/97	5/20/97	17	930	< 2.0
299-W18-1	80K5D6	5/22/97	5/28/97	13	1100	< 2.0
299-W18-4	BOK5F3	5/20/97	5/28/97	31	81	< 2.0
299-W18-21	B0K5D7	5/21/97	5/28/97	. 4.5	530	<2.0
299-W18-23	BOK5C5	5/22/97	5/28/97	< 2.0	230	< 2.0
299-W18-26	BOK5C6	5/21/97	5/28/97	20	52	< 2.0
299-W18-27	BOK5D8	5/21/97	5/28/97	< 2.0	330	< 2.0
299-W18-28	BOK5D9	5/22/97	5/28/97	6.6	11	< 2.0
299-W18-30	BOK5FO	5/21/97	5/28/97	14	830	2.3
299-W18-32	BOK5F1	5/21/97	5/28/97	< 2.0	< 2.0	< 2.0
699-39-79	BOK5C7	5/22/97	5/28/97	< 2.0	33	<2.0
Duplicate @ 699-39-79	BOK5C8	5/22/97	5/28/97	< 2.0	34	< 2.0

<sup>/</sup> Value less than practical quantitation limit

VOA instrument: Hewlett Packard 5890 GC, Serial # 3235A47685 Method: Dual DB-VRX columns, ECD/FID, 1 mL headspace injection

Logbook: 200-ZP-1 Field Logbook, EL-1359

Analyst:

.T/ Coffman

Pacific Northwest Natio	onal	CH	IAIN OF CUSTO	DY/SAM	MPLE A	NALYS	SIS RE	QUEST			C97-018	-19 Page	e j af 1
Collector R2 STEFFLER	(RFS)		Company Contact JH Kessner		onhone No. 509) 372-95	38		Project C Stewar	Coordinator t, DL	·	Data Turnar Field	ound	1
Project Designation 200-ZP-1 IRM (Group 3) Gro	undwater Sampli	ng FY1997	Sampling Location 200W					SAF No. C97-0	18		,		
lce Chest No.	561		Field Logbook No.	HC-N	1-205	#/4	/		of Shipment VEHICLE				
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Collector D.R. BREWINGTO	N (RFS)		Company Contact JH Kessner		phone No. 509) 372-95.	38		Project Co Stewart.	oordinator DI,		Data Turnar Field	ound	
Project Designation 200-7P-1 IRM (Group 3) Ground	water Sampling FY 1	1997	Sampling Location 200W					SAF No. C97-018	ζ		ł		
lee Chest No. Shir # 268			Field Logbook No.  4 HC - 14 - 205	. #63				Method of GOVT.	Shipment VEHICLE				
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Collector AT SICKLE	(RFS)		Company Contact JH Kessner		ephone No. 509) 372-953	38		Project Co Stewart,		-	Data Turnaro Field	und	•
Project Designation 200-ZP-1 IRM (Group 3) Grou	undwater Sampling	FY1997	Sampling Location 200W					SAF No. C97-018	8		L		
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Collector RZ ST	EFFLER (RFS		Company Contact JH KESSNER		ephone No. 509+372-95	38		Project Co Stewart,	oordinator DL		Data Turnat Field	round	
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Pacific Northwest National Laboratory	National	Сна	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	DY/SAMPLF	SISCIVNV	REQUEST	('97-015-26	Pager 1 - 1 - 1
Collector	92 STEFFLER (RFS)		Company Contact J.H. KI SSNER	Telephone No. (509) 372-9538	No. 2-9538	Project Coordinator Stewart, Di	Data Turnaround Field	
Project Designation 200-ZP-1 IRM (Group 2	Project Designation 200-ZP-1 IRM (Group 2) Groundwater SamplingFY1997		Sampling Location 200-W			SAF No. C97-015		
ree Chest No.	1-561		Field Lughaak No.	1C - N-255	19# 3	Method of Shipment GOVT VEHICLE		
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Collector AG RIZZO (	(RFS)		Company Contact H Kessner		lephone No. (509) 372-953	38		Project Co Stewart.			Data Turnare Field	ound	
Project Designation 200-ZP-1 IRM (Group 3) Grou	andwater Sampling		Sampling Location 200W					SAF No. C97-018	3		l		·
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Pacific Northwest Nati Laboratory	onal	CRA	AIN OF CUSTO	DY/SAN	1PLE A	NALYS	IS REQ	UEST		J-741 .	C97-018-	26 Page	i of f
Collector	Young		Company Contact  JH Kessner		ephone No. 509) 372-95	38		Project Co Stewart	oordinator DL		Data Turnaro Field	und	•
Project Designation 200-ZP-1 IRM (Group 3) Gro	1	FY 1997	Sampling Location 200W				•	SAF No. C97-01	8	-			
ice Chest No.	1982		Field Lozbook No.	MC- M-	- 205	#65	5-	Method of GOVT.	Shipment VEHICLE				
Shipped To Mobile Laboratory		K	Offsite Property No.		NA			Bill of Lad	ing/Air Bill	No.	IVA		<del>``</del>
POSSIBLE SAMPLE HAZAR	:DS/REMARKS		Preservation	HCI to pH × 2 Cooled to 4C									
			Type of Container	Gs*									
	1		No. of Container(s)	1									
Special Handling and/or Stora	E¢		Volume	40ml									
	SAMPLE /	ANALYSIS		VOA BY FIELD GC Chlerenated Hydrocarbon									
Sample No.	Matrix *	Sample Date	Sample Time					1		1	1		
B0K5D6	Water	5-22-47	1056	X									
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CHAIN OF POSSESSION		ames			INSTRUCTI						S SI	fatrix * Soil Sedanoni	
Relinquished By  Relinquished By	Date Time  5-22-9: Date Time	7 St. Received By 7 Received By Received By	Date Tu JRT Coffine Date Tu	me 1335 5/22/91 me	<b>Y</b>							SO SI W O A DS	Selid Shide: Water Oil Au Lynn Solids
Relinquished By	Date Time	Received By	Date Tu	mc								IKI T WI	Drinn Fegurds Lissue Wipe
Relinquished By	Date Time	Received By	Date Tir	me								t. V X	Liquid Vegetation Other
LABORATORY Received By SECTION			<u></u>	Title							Date Time	e	
FINAL SAMPLE Disposal Mo	:thod				-	Disposed By					Date Time	· · · · · · · · · · · · · · · · · · ·	

Pacific Northwest National Laboratory		CHAIN	OF CUSTO	CHAIN OF CUSTODY/SAMPLE ANA	NALYSIS REQUEST	QUEST	C97-018-33	Page 1 of 1
Collector AG RIZZO (RFS)	8)	Com	Company Contact  JH Kessner	Felephone No. (509) 372-9538	38	Project Coordinator Stewart, DL	Data Turnaround	
Project Designation 200-ZP-1 IRM (Group 3) Groundwater Sampling FY1997	water Sampling FY 1997	Samı 20	Sampling Location 200W			SAF No. C97-018		
Ice Chest No.	16.	Field	Field Logbook No.	xC 74	Parec con	Method of Shipment GOVT. VEHICLE		
		ISDO	erty No.			Bill of Lading/Air Bill No.		
POSSIBLE SAMPLE HAZARDS/REMARKS	REMARKS		Preservation	to TropHos				-
	NIN		Type of Container	7				
	-	· .	No. of Container(s)					
Special Handling and/or Storage	12 1000	``	V olume	r.ml				
	SAMPLE ANALYSIS			Very BY FIELD GC Theremated High-surviva				
Sample Vo	Marie C	Sample Date	Sample Time					
B0K5F3	MAY	2 0 1907	1251	7				
								·
CHAIN OF POSSESSION		Sign/Print Names		SPECIAL INSTI	INSTRUCTIONS civity Exempt **		S	
AG RIZZO (RFS)	Date Time 1 408 Rece	Received By	Date Time	1408			SI. SO	· • • i
ReImquished By		Received By	Date Time				<i>}</i>	
Relinquished By	Date Time Rece	Received By	Date Time				DL 05	Drum Liquids Tissue
Relinquished By	Date Time Rece	Received By	Date Time				× <f< td=""><td></td></f<>	
LABORATORY Received By SECTION				Tale			Date Time	
DISPOSITION Disposal Method					Disposed Bs		Date Time ;	

Pacific Northy Laboratory	west National		СН	IAIN OF CUSTO	DY/SAN	IPLE A	NALYS	IS REQ	UEST		;	C97-018	1-27 Page	e I y I
Collector	U SICKLE (RFS)			Company Contact JH Kessner		phone No. 509) 372-95:	38		Project Co Stewart,		:	Data <b>Furna</b> i Field	round	,
Project Designation	n Group 3) Groundwat		97	Sampling Location 200W					SAF No. C97-018	3		<b></b> ,	······································	
Ice Chest No.	3			Field Logbook No.  WHO N- 205	#63		<del></del>	· · · · · · · · · · · · · · · · · · ·	Method of GOVT.	Shipment VEHICLE				
Shipped To Mobile Laboratory				Offsite Property No.				····	Bill of Lad	ing/Air Bill	No.			
POSSIBLE SAMPI	LE HAZARDS/RE	MARKS		Preservation	HCI to pH + 2 Cooled to 4C					T	T	T	T	
				Type of Container	Gs*									
		ı	<u></u>	No. of Container(s)	1									
Special Handling an	id/or Storage			Volume	40ml									
		SAMPLE ANAI	VSIS		VOA BY HELD GA Chlor mated Hydrocarbor									
Sample No	).	Matrix *	Sample Date	Sample Time		1	1	1	1	1	1	1	1	
B0K5D7		Water	5/21/17	1041	V									
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CHAIN OF POSSI	Names		** Total Act	NSTRUCTI		<u> </u>	<u> </u>			s .	Matrix *			
Relinquished By Relinquished By	Date Till Date Till Date Till	me 13:45 _5/21/97								SO = SI. W	Solution Solid Sludge Water Oil Air Drum Solids			
Relinquished By		Date Time	Received By	Date Tir									DI. · T - WI ·	Drivin Liquids Tissue Wipe Liquid
Relinquished By	L	Date Time	Received By	Dale Tir	me								( v -	Vegetation Other
LABORATORY SECTION	Received By				Title	·						Date Tir	me	
	Disposal Method						Disposed By	, <u></u>				Date Tir	me	

Pacific Northwest Nati Laboratory	onal	CH.	AIN OF CUSTO	DY/SAN	IPLE A	.NALYS	SIS REC	QUEST			C97-015	-27 Page	t or t
Collector K.	Yours		Company Contact JH KESSNER	Tele	ephone No. 509) 372-95:	38		Project C Stewart	oordinator . DL		Data Turnar Field	ound	•
Project Designation 200-ZP-1 IRM (Group 2) Gro			Sampling Location 200-W				,	SAF No. (197-01	<b>.</b>		<del></del>		
Ice Chest No.	82		tield Lugbook No.	1C - N	1. 20	15#	65		f Shipment VEHICLE				
Shinned To Mobile Laboratory			Offsite Property No.		NA			Bill of Lad	ding/Air Bill	No.	NA		
POSSIBLE SAMPLE HAZAR	DS/REMARKS		Preservation	HCI to pH <2 Cooled to 4C	T	T	7	<b>—</b>	T	T	T		T
		Ī	Type of Container	Gs*	<u> </u>					1			1
			No. of Container(s)	1									
Special Handling and/or Storag	te		Volume	40ml									
	SAMPLE AN	NALYSIS		VOA BY FIELD GC Chlorenated Hydrocarbon									
Sample No.	Matrix •	Sample Date	Sample Time										
B0K5C5	Water	5-22-97	0841	X									
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-			<del> </del>	<del> </del>	<del> </del>	<del> </del>		<del> </del>	<del> </del>	<del> </del>			<del> </del>
				<del></del>	<u> </u>	<del> </del>	+-		<del> </del>	<del> </del>	-	, <u>, , , , , , , , , , , , , , , , , , </u>	<del>                                     </del>
						<del> </del>	<del>                                     </del>			<del> </del>	-	<u>.</u>	<del>                                     </del>
		<del>                                     </del>				<del> </del>	+	<del>                                     </del>	<del> </del>	<del> </del>	<del> </del>		ļ
CHAIN OF POSSESSION		Sign/Print Na				INSTRUCT			<u> </u>	<u> </u>	<u> </u>	S St.	latrix *  Soil Sedanem
Relinquished By  K. Yo. My Ton You  Relinquished By	Date Time /3.  5-22-7  Date Time	Date Tir	me 1335 5/22/97 me								SO SI W O V	Solid Sludge Water Oil An Drum Solids	
Relinquished By Date Time Received By			Date Tir	me								DL L WL	Omini Liquids Lissue Wipe
Relinguished By	Date Time	Received By	Date Tir	me								L .	Liquid Vegetation Other
LABORATORY Received By SECTION	· · · · · · · · · · · · · · · · · · ·			Tille							Date Tin	ne	***************************************
FINAL SAMPLE Disposal Me	thod					Disposed B	3>		<del></del>		Date Tin	ne	

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Pacific Northw Laboratory	est National		СН	AIN OF CUSTO	DY/SAN	IPLE A	NALYSI	S REQ	UEST			C97-015	-28 Page	c i 1 l
Collector R7	SICKLE (RFS)			Company Contact  J.H. KESSNER		ephone No. 509) 372-953	38		Project Co Stewart,			Data Turnar Field	l round	
Project Designation 200-ZP-1 IRM (Gr	oup 2) Groundwate	er SamplingFY1'	997	Sampling Location 200-W					SAF No. C97-015	5		L	·	
Ice Chest No.	8		<u></u>	Field Logbook No.  WHC-N-20	s #63					Shipment VEHICLE		<del></del>		
Shipped To Mobile Laboratory				Offsite Property No.		"1			Bill of Lad	ing/Air Bill i	No.			
POSSIBLE SAMPLI	E HAZARDS/REM	JARKS		Preservation	HCI to pH 2 Cooled to 4C					T	1	T		T
				Type of Container	Gs*					<u> </u>			<u> </u>	
L		1		No. of Container(s)	'	]								
Special Handling and	l/or Storage			Volume	40ml									
		SAMPLE ANAI	EVSIS		VOA BY FIELD G Chleromated Hydrocarbon									
Sample No.		datrix *	Sample Date	Sample Time		1	1 1		<u> </u>		<u> </u>			
B0K5C6		Water	5/21/97	1/30	~									
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<del></del>					<del> </del>	<del> </del>					<u> </u>	<del>  </del>	<u> </u>	<del> </del>
CHAIN OF POSSE	SEION		Sign/Print N	Variae	<u> </u>		INSTRUCTIO		<u> </u>	<u></u>	<u></u>		1	Matrix *
		ate Time /3:45	Received By	Date Tii	imc 13:45	ļ		• •			,		S SL SO	Sod - Sedunent - Solid
Relinquished BY SICKLE	14 J	721/97	27 COFFMA	1/2Tloffman 5	5/21/97	-								Shide : Water
Relinquished By	Da	ate Time	Received By	Date Tir	me								A OS	Od Ait Droin Schds
Relinquished By	Da	ate Time	Received By	Date Tu	me								DI. T WI	Drum Liquids - Tissue - Wipz
Relinquished By	Da	ate Time	Received By	Date Tu	me								L V X	Liquid Veretation Other
LABORATORY ROSECTION	eceived By				Title		<del></del>			· · · · · · · · · · · · · · · · · · ·		Date Tin	ne	
FINAL SAMPLE I	Disposal Method						Disposed By					Date Tin	nc	

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No. of Container   No. of Cont	Pacific Northwest Laboratory	t National		СН	AIN OF CUSTO	DY/SAN	1PLE A	NALYS	IS REC	QUEST			C97-018	-28 l'ag	દ ! ભં્ }
2002-F1 RM (Group 3) Grounds-act Sampling F1 1997   200N   279-18   200N   20	Collector RTS	ICKLE (RFS)						38						ound	
Mineral Tr Mobile Laboratory Office Properts No. Will of Lading Air Bill No.  Will of Lading Air Bill N	Project Designation 200-ZP-1 IRM (Group	3) Groundwater S	ampling FY19	97					· · · · · · · · · · · · · · · · · · ·		k	——————————————————————————————————————			
No. of Container()	Ice Chest No.				Field Logbook No.	- #63	· ·								
OSSIBLE SAMPLE HAZANDS REMARKS    Prescription	Shipped To				Offsite Property No.						ing/Air Bill	No.			
Type of Containers   1	POSSIBLE SAMPLE II	AZARDS/REMA	RKS		Preservation	HCI to pH · 2 Cooled to 4C									
Sample No. Matrix* Sample Date Sample Time  Sample No. Matrix* Sample Date Sample Time  Sample No. Matrix* Sample Date Sample Time  OKSDB Water 5/2//19 / 1001  CHAIN OF POSSESSION  7 Sign/Print Names  **Total Activity Exempt **  SPECIAL INSTRUCTIONS  **Total Activity Exempt **  SPECIAL INSTRUCTI					Type of Container										
Sample No. Niatrix* Sample Date Sample Time  Sample No. Niatrix* Sample Date Sample Time  OKSDB Water 5/2/47 / 1/001  CILAIN OF POSSESSION  Sign/Print Names  clinquished By Date Time  Received By Date Time  Received By Date Time  Received By Date Time  LABORATORY Received By Date Time			1		No. of Container(s)	1									
SAMPLE ANALYSIS  Checonical Hydrocards Hydro	Special Hundling and/or	Storage			Volume	40ml									
CHAIN OF POSSESSION  CHAIN OF POSSESSION  Sign/Print Names  **Total Activity Exempt **  SPECIAL INSTRUCTIONS  **Total Activity Exempt **  SPECIAL		S	AMPLE ANA	LYSIS		FIELD GC Chloronated									
CHAIN OF POSSESSION  Sign/Print Names  **Total Activity Exempt **  SPECIAL INSTRUCTIONS  **Total Activity Exempt **  SS Sedient  SS Sedien	Sample No.	Mai	rix *	Sample Date	Sample Time		1	.1	1		1				
CHAIN OF POSSESSION  Sign/Print Names  **Total Activity Exempt **  S S Sud  SE Sedment  SO	BOKSD8	W	ater	5/21/97	1001	V					<u> </u>				
CHAIN OF POSSESSION  Sign/Print Names  ** Total Activity Exempt **  To							İ								<u> </u>
CHAIN OF POSSESSION  Sign/Print Names  ** Total Activity Exempt **  To															
CHAIN OF POSSESSION  Sign/Print Names  ** Total Activity Exempt **  ** Tot															•
CHAIN OF POSSESSION  Sign/Print Names  ** Total Activity Exempt **  To															
CHAIN OF POSSESSION  Sign/Print Names  ** Total Activity Exempt **  To														<u>-</u>	
CHAIN OF POSSESSION  Sign/Print Names  ** Total Activity Exempt **  To															
elinquished By Date Time Received By Date Time    Continue	CHAIN OF POSSESS	· //		_			•• Total A							. <b>S</b>	r Sed • Sedunent
elinquished By Date Time Received By Date Time    Date Time   Received By Date Time   Date	I FILLY	7 3/21/	<u> </u>	- / (20 / - // ~										SI. W	<ul> <li>Sludge</li> <li>Water</li> <li>Oil</li> </ul>
LABORATORY SECTION  Received By  Date Time  Received By  Date Time  Date Time  Date Time  Date Time  Date Time	Relinquished By													DS DL T	Drun Solids Drun Liquids Tissue
SECTION RELEGEDS	Relinquished By	Date	Time	Received By	Date To	ine				_				L V	<ul> <li>Liquid</li> <li>Vegetation</li> </ul>
		ived By		1		Title	1						Date Tu	me	
		posal Method	<del> </del>					Disposed B	y.				Date Tu	me	

Pacific Northwest Natio	enal	СН	AIN OF CUSTO	DY/SAN	IPLE A	NALYS	IS REQ	UEST			C97-018-2	9 Page	1 41.1
Collector K. Yo	VNE		Company Contact JH Kessner	Tele (	ephone No. 509) 372-95:	38		Project Co Stewart,	oordinator DL		Data Turnarot Field	nd	
Project Designation 200-ZP-1 IRM (Group 3) Group	J	1997	Sampling Location 200W					SAF No. C97-013	3				
ice Chest No.	82	-	Field Logbook No.	4c-N-	205	# 65			Shipment VEHICLE				
Shipped To Mobile Laboratory			Offsite Property No.		NA			Bill of Lad	ing/Air Bill	No.	NA		
POSSIBLE SAMPLE HAZARI	DS/REMARKS		Preservation	HCI to pH <2 Cooled to 4C	1	T					T		
			Type of Container	Gs*									
			No. of Container(s)	1									<u> </u>
Special Handling and/or Storag	e		Volume	40m1									
	SAMPLE AS	SALYSIS		VOA BY FIELD GC Chlorenated Hydrocarbon								-	
Sample No.	Matrix *	Sample Date	Sample Time		1			1	1		1		
B0K5D9	Water	5-22-97	0910	$\perp X$									
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				<del>                                      </del>		<u> </u>		<del> </del>	<del> </del> _	<u> </u>			<del> </del>
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CHAIN OF POSSESSION		Sign/Paint N	iames			INSTRUCTI tivity Exempt *						S	atrix *
Relinquished By  Relinquished By	Date Time /3.  5-22-9  Date Time	Received By  RECEIVED BY	Date Til Date Til	me 1 <b>33</b> 5 . 5/22 <i>Kg</i> me								SO SU W O SO A DS /	Sedunent Solid Sluder Water Od Au Drum Solids
Relinquished By Relinquished By	Date Time	Received By Received By	Date Tii Date Tii									T - WI - L -	Dram Liquids Tissue Wipe Liquid
		·											Vegetation Other
LABORATORY Received By SECTION		Tule	Tale						Date Time				
FINAL SAMPLE Disposal Met DISPOSITION	hod			<del></del> -		Disposed By	:			<del></del>	Date Time		

Pacific Northy Laboratory	vest National		CH	IAIN OF CUSTO	DY/SAN	IPLE A	NALYS	IS REQ	UEST			C97-018-	-30 Pa	ge ) · :
Collector A	T SICKLE (RFS)	<b></b>		Company Contact JH Kessner		phone No. 509) 372-95	38		Project Co Stewart,			Data Turnar Field	ound	-
Project Designation 200-ZP-1 IRM (G	ı roup 3) Groundwat	er Sampling I')	1997	Sampling Location 200W				•	SAF No. C97-018	3		<u></u>		
Ice Chest No. 5 M L	#182			Field Logbook No.  WIT (-N-20	5-#63	3			Method of GOVT.	Shipment VEHICLE				
Shipped To Mobile Laboratory	:			Offsite Property No.					Bill of Lad	ing/Air Bill 	No.			
POSSIBLE SAMPL	E HAZARDS/RE	MARKS	_	Preservation	HCI to pH <2 Cooled to 4C		T							
				Type of Container	Gs*									
				No. of Container(s)	1									
Special Handling an	d/or Storage		<u>.                                    </u>	Volume	40ml						ŀ			
		SAMPLE AN	ALVSIS		VOA BY FIELD GC Chleronated Hydrocarbon									
Sample No.		Matrix *	Sample Date	Sample Time			1							
B0K5F0		Water	5/21/97	0926	/				<u> </u>	-	ļ			_
			<del></del>				<u>                                     </u>			ļ	<u> </u>			
			<u> </u>		<del> </del>	<u> </u>			<u> </u>					
	2007071		Si Maria	<u> </u>	<u> </u>		INSTRUCTI			<u> </u>	<u> </u>		1	Matrix *
CHAIN OF POSSI	////	Pate Time	Sign/Print		me / 3:45	ŀ	uvily Exemp						S SE SQ	- Soil - Sedument r Solid
HT SICKLE	HIST 5/21/	97 13:4	5 RT COFFM	Date To	5/21/02								M. Rr	<ul> <li>Studge</li> <li>Water</li> </ul>
Relinquished By	r.	Date Time	Received By	Date Ti	me								O A DS	- Oil - Air - Drum Selids
Relinquished By		Pale Time	Received By	Date Tu	ne								DL T W1	Drum Liquids Tissue Wipe
Relinquished By		Date Time	Received By	Date Tu	ne								t v x	- Liquid - Vegetation - Other
LABORATORY SECTION	Received By				Title	<u> </u>	<del></del>		·	<del>-</del>		Date Tin	 ne	
FINAL SAMPLE	Disposal Method						Disposed By		· ·			Date 7 in	ie.	

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Pacific Northwest Laboratory	st National		CH.	AIN OF CUSTO	DY/SAN	1PLE A	NALYS	IS REQ	UEST			C97-018	-31 Page	1 (1)
Collector	SICKLE (RFS)			Company Contact JH Kessner		ephone No. 509) 372-95)	38		Project Co Stewart,			Data Turnar Field	ound	
Project Designation 200-ZP-1 IRM (Grou	ip 3) Groundwater S	Sampling FY 199		Sampling Location 200W					SAF No. C97-018	8				
Ice Chest No.	NIT			Field Logbook No. Wife:	N. J. 5	<b>#</b>			Method of GOVT.	Shipment VEHICLE				
Shipped To Mobile Laboratory				Offsite Property No.	119				Bill of Lad	ing/Air Bill مراکز	_			
POSSIBLE SAMPLE	HAZARDS/REMA	ARKS		Preservation	HCI to pH + 2 Cocked to 46					T				
			<u></u>	Type of Container	€5°									
		1		No. of Container(s)	1	ł			İ					
Special Handling and/o	or Storage			Volume	40ml									i .
·	S	AMPLE ANAL	YSIS .		VOA BY FIELD GC Chlorenated Hydrocarbon									
Sample No.	Mai	rix *	Sample Date	Sample Time		1	1	1				1		
BOK5F1	W	ater	5-21-97	0835	1									
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CHAIN OF POSSESS	SION		Sign/Print No	ames	<u> </u>		NSTRUCT			<u> </u>	<u> </u>	.l	s .	atrix *
Relinquished BY AT SICKLE THES Relinquished By	Date Date	Time 77 /345 Time	Received By  27 Coff by Arrange  Received By	Date Tu Date Tu	ne 1345 5/21/97 ne								O	Sedument Selid Sludge Water Oil Au Drum Solids
Relinquished By	Date	Time	Received By	Date Tu	Me								DI.	Drum Liquids Tissue Wipe
Relinquished By	Date	Time	Received By	Date Tit	TKC								Ł.	Liquid Vegetation Other
LABORATORY Reco	erved By		<u> </u>		Title							Date Tin	ne	
	sposal Method	· · · · · · · · · · · · · · · · · · ·		<del>.</del>		······································	Disposed By	<b>,</b>				Date Tue	ne	

Pacific Northwest National Laboratory	onal	CHA	AIN OF CUSTO	DY/SAN	IPLE A	NALYS	IS REQ	UEST		- <u>, — -</u>	C97-015	-29 Page	1 or 1
Collector K. You	URB		Company Contact JH KISSNER	Tele	ephone No. 509) 372-95	38		Project C Stewart	oordinator . DL		Data Turnai Field	ound	
Project Designation 200-AP-1 IRM (Group 2) Gro	1		Sampling Location 200-W		· <u></u>		···	SAF No. C97-01	5		<u> </u>		
lee Chest No.	7		Field Loghook No.	HC- N-	705	#65	-		f Shipment VEHICLE		·····		
Shipped To Mobile Laboratory	*		Offsite Property No.	· • • • • • • • • • • • • • • • • • • •	NA	<del></del>		Bill of Lac	ding/Air Bill	No.	NA		
POSSIBLE SAMPLE HAZAR	DS/REMARKS		Preservation	HCl to pH <2 Cooled to 40					1	T /	<u> </u>		<u> </u>
			Type of Container	Gs*									
	<u></u>		No. of Container(s)	1		ļ <u>.</u>							
Special Handling and/or Storag	e		Volume	40ml									
	SAMPLE.	ANALYSIS		VOA BY FIELD GC Chlerenated Hydrocarbon									
Sample No.	Matrix *	Sample Date	Sample Time		]	<u> </u>	1	1					1
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